All Sorts of
Instruments
belonging to
the Art of
Navigation
are Sold by

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An Epitome
of the art of
Navigation
By
John Seller
I. Drapentier. Sc.

A *Table* shewing what day of the Week the First day of *March* falls on; also the *Prime*, *Epact*, *Dominical Letters*, *Shrove Sunday*, *Easter day*, and *Whitsunday*, for 30 years.

Anno Dom	*First of March.*	*Prim.*	*Epact*	*Dom. Let.*	*Shrove Sunday*	*Easter Sunday.*	*Whitsunday.*
1681	Tuesd.	10	20	B	Feb. 13	Apr. 3	May 22
1682	Wedn.	11	1	A	Feb 26	Apr.16	June 4
1683	Thurs.	12	12	G	Feb. 18	Apr. 8	May 27
1684	Saturd.	13	23	F E	Feb. 10	Mar. 30	May 18
1685	Sunday	14	4	D	Mar. 1	Apr.19	June 7
1686	Mond.	15	15	C	Feb. 14	Apr. 4	May 23
1687	Tuesd.	16	26	B	Feb. 6	Mar.27	May 15
1688	Thurs.	17	7	A G	Feb. 26	Apr.15	June 13
1689	Friday	18	18	F	Feb. 10	Mar.31	May 19
1690	Saturd.	19	29	E	Mar. 2	Apr.20	June 8
1691	Sunday	1	11	D	Feb. 23	Apr.12	May 31
1692	Tuesd.	2	22	C B	Feb. 7	Mar.27	May 15
1693	Wedn.	3	3	A	Feb. 26	Apr.16	June 4
1694	Thurs.	4	14	G	Feb. 18	Apr. 8	May 27
1695	Friday	5	25	F	Feb. 2	Mar.24	May 12
1696	Sunday	6	6	E D	Feb. 22	Apr.12	May 31
1697	Mond.	7	17	C	Feb. 14	Apr. 4	May 23
1698	Tuesd.	8	28	B	Mar. 6	Apr.24	June 12
1699	Wedn.	9	9	A	Feb. 19	Apr. 9	May 28
1700	Friday	10	20	G F	Feb. 10	Mar.31	May 19
1701	Saturd.	11	1	E	Mar. 2	Apr.20	June 8
1702	Sunday	12	12	D	Feb. 15	Apr. 5	May 24
1703	Mond.	13	23	C	Feb. 7	Mar.28	May 16
1704	Wedn.	14	4	B A	Feb. 26	Apr.16	June 4
1705	Thurs.	15	15	G	Feb. 18	Apr. 8	May 27
1706	Friday	16	26	F	Feb. 3	Mar.24	May 12
1707	Saturd.	17	7	E	Feb. 23	Apr.13	June 1
1708	Mond.	18	18	D C	Feb 14	Apr. 4	May 23
1709	Tuesd.	19	29	B	Mar. 6	Apr.24	May 12
1710	Wedn.	1	11	A	Feb. 19	Apr. 9	May 28

*

A Table of the Sun's Declination

Days	Jan.		Febr.		Mar.		April		May		June.	
	South.		South.		South.		North		North		North	
01	21	42	13	44	03	23	08	37	18	06	23	11
02	21	32	13	24	02	59	08	59	18	21	23	15
03	21	22	13	04	02	35	09	21	18	35	23	18
04	21	11	12	44	02	12	09	42	18	50	23	21
05	21	00	12	23	01	48	10	03	19	04	23	23
06	20	48	12	02	01	24	10	25	19	18	23	26
07	20	36	11	41	01	01	10	46	19	31	23	27
08	20	24	11	19	00	37	11	07	19	44	23	29
09	20	11	10	58	00	13	11	27	19	57	23	29
10	19	57	10	36	No.	11	11	48	20	10	23	30
11	19	44	10	15	00	34	12	08	20	22	23	30
12	19	30	09	53	00	58	12	28	20	33	23	30
13	19	06	09	31	01	21	12	48	20	45	23	29
14	19	01	09	08	01	45	13	08	20	56	23	28
15	18	46	08	46	02	09	13	27	21	07	23	26
16	18	31	08	24	02	32	13	46	21	17	23	24
17	18	15	08	01	02	55	14	16	21	27	23	22
18	17	59	07	36	03	19	14	24	21	37	23	19
19	17	43	07	15	03	42	14	43	21	46	23	16
20	17	26	06	52	04	05	15	01	21	55	23	12
21	17	09	06	29	04	29	15	19	22	03	23	08
22	16	52	06	06	04	52	15	37	22	11	23	03
23	16	34	05	43	05	15	15	55	22	19	22	58
24	16	16	05	20	05	38	16	12	22	26	22	53
25	15	58	04	57	06	00	16	29	22	33	22	48
26	15	41	04	43	06	23	16	46	22	46	22	41
27	15	21	04	10	06	46	17	02	22	50	22	35
28	15	02	03	46	07	08	17	19	22	55	22	28
29	14	43			07	31	17	35	22	57	22	21
30	14	24			07	53	17	50	23	02	22	13
31	14	00			08	15			23	07		

for the first Year after Leap-year.

Days.	July.		Aug.		Sept.		Oct.		Nov.		Dec.	
	North		North		North		South.		South.		South.	
01	22	05	15	09	04	20	07	18	17	42	23	08
02	21	57	14	50	03	57	07	41	17	58	23	12
03	21	48	14	32	03	34	08	05	18	14	23	16
04	21	39	14	13	03	11	08	26	18	29	23	19
05	21	30	13	55	02	48	08	48	18	44	23	22
06	21	20	13	36	02	24	09	10	18	53	23	25
07	21	10	13	16	02	01	09	32	19	14	23	27
08	20	59	12	57	01	38	09	54	19	28	23	28
09	20	48	12	37	01	14	10	16	19	42	23	29
10	20	37	12	17	00	51	10	38	19	56	23	30
11	20	25	11	57	00	27	10	59	20	09	23	30
12	20	13	11	37	00	04	11	21	20	22	23	30
13	20	01	11	17	So.	20	11	42	20	34	23	29
14	19	48	10	56	00	43	12	03	20	46	23	28
15	19	35	10	35	01	07	12	23	20	58	23	26
16	19	22	10	14	01	30	12	44	21	09	23	23
17	19	08	09	53	01	54	13	04	21	20	23	21
18	18	54	09	32	02	17	13	24	21	31	23	17
19	18	40	09	10	02	41	13	41	21	44	23	14
20	18	25	08	46	03	04	14	04	21	50	23	10
21	18	11	08	27	03	27	14	24	22	00	23	05
22	17	56	08	05	03	51	14	43	22	08	23	00
23	17	40	07	43	04	14	15	02	22	17	22	54
24	17	24	07	21	04	37	15	21	22	25	22	48
25	17	08	06	59	05	01	15	39	22	32	22	42
26	16	52	06	36	05	24	15	58	22	39	22	35
27	16	35	06	14	05	47	16	16	22	46	22	28
28	16	19	05	51	06	10	16	33	22	52	22	20
29	16	51	05	29	06	33	16	51	22	58	22	12
30	15	44	05	06	06	56	17	08	23	03	22	03
31	15	27	04	43			17	25			21	54

A Table of the Sun's Declination

Days.	Jan. South.		Feb. South.		Mar. South.		April North		May North		June North	
01	21	45	13	49	03	28	08	32	18	02	23	10
02	21	35	13	29	03	05	08	54	18	17	23	14
03	21	24	13	09	02	45	09	15	18	32	23	17
04	21	14	12	49	02	17	09	37	18	46	23	20
05	21	02	12	28	01	54	09	58	19	00	23	23
06	20	51	12	07	01	30	10	20	19	14	23	25
07	20	39	11	46	01	06	10	41	19	28	23	27
08	20	27	11	25	00	43	11	02	19	41	23	28
09	20	14	11	03	00	19	11	22	19	54	23	29
10	20	01	10	42	No.	05	11	43	20	07	23	30
11	19	47	10	20	00	28	12	04	20	19	23	30
12	19	33	09	58	00	52	12	23	20	31	23	30
13	19	19	09	36	01	16	12	43	20	42	23	29
14	19	05	09	14	01	39	13	03	20	53	23	28
15	18	50	08	52	02	03	13	23	21	04	23	26
16	18	34	08	29	02	26	13	42	21	15	23	25
17	18	19	08	06	02	50	14	01	21	25	23	22
18	18	03	07	44	03	13	14	20	21	34	23	19
19	17	47	07	21	03	37	14	38	21	44	23	16
20	17	30	06	58	04	00	14	57	21	53	23	13
21	17	13	06	35	04	23	15	15	22	01	23	09
22	16	56	06	12	04	46	15	33	22	09	23	04
23	16	39	05	49	05	09	15	51	22	17	23	00
24	16	21	05	26	05	32	16	08	22	25	22	54
25	16	03	05	02	05	55	16	25	22	32	22	49
26	15	44	04	39	06	18	16	42	22	38	22	43
27	15	26	04	15	06	40	16	58	22	45	22	37
28	17	07	03	52	07	03	17	15	22	51	22	30
29	14	48			07	25	17	31	22	56	22	23
30	14	28			07	48	17	46	23	01	22	15
31	14	09			08	10			23	06		

for the second Year after Leap-year.

Days	July. North		Aug. North		Sept. North		Oct. South.		Nov. South.		Dec. South.	
01	22	07	15	13	04	26	07	13	17	37	23	07
02	21	59	14	55	04	03	07	35	17	54	23	11
03	21	50	14	37	03	40	07	58	18	10	23	15
04	21	41	14	18	03	16	08	21	18	25	23	19
05	21	32	13	59	02	53	08	43	18	41	23	22
06	21	22	13	40	02	30	09	05	18	56	23	24
07	21	12	13	21	02	07	09	27	19	11	23	26
08	21	02	13	02	01	43	09	49	19	25	23	28
09	21	51	12	42	01	20	10	11	19	39	23	29
10	20	40	12	22	01	57	10	33	19	53	23	30
11	20	28	12	02	00	33	10	54	20	06	23	30
12	20	16	11	42	00	10	11	15	20	14	23	30
13	20	04	11	22	So.	14	11	37	20	31	23	29
14	19	51	11	01	00	37	11	58	20	43	23	28
15	19	38	10	40	01	01	12	18	20	55	23	26
16	19	25	10	19	01	24	12	39	21	07	23	24
17	19	12	09	58	01	48	12	59	21	18	23	21
18	18	58	09	37	02	11	13	20	21	28	23	18
19	18	44	09	16	02	35	13	40	21	38	23	15
20	18	29	08	54	02	58	13	59	21	48	23	11
21	18	14	08	32	03	22	14	19	21	57	23	06
22	17	59	08	10	03	45	14	38	22	06	23	01
23	17	44	07	48	04	08	14	57	22	15	22	56
24	17	28	07	26	04	32	15	16	22	23	22	50
25	17	12	07	04	04	55	15	35	22	30	22	44
26	16	55	06	42	05	18	15	53	22	38	22	37
27	16	39	06	19	05	41	16	11	22	44	22	30
28	16	23	05	57	06	04	16	29	22	51	22	22
29	16	06	05	34	06	27	16	47	22	56	22	14
30	15	48	05	11	06	50	17	04	23	02	22	05
31	15	31	04	49			17	21			21	56

A Table of the Sun's Declination

Day	Jan.		Feb.		Mar.		April		May		June.	
	South.		South.		South.		North		North		North	
01	21	47	13	54	03	34	08	26	17	58	23	09
02	21	37	13	34	03	10	08	48	18	13	23	13
03	21	27	13	14	02	47	09	10	18	28	23	16
04	21	16	12	54	02	23	09	32	18	43	23	20
05	21	05	12	33	01	59	09	53	18	57	23	22
06	20	54	12	11	01	36	10	14	19	11	23	25
07	20	42	11	51	01	12	10	36	19	25	23	27
08	20	30	11	30	00	48	10	56	19	38	23	28
09	20	17	11	09	00	25	11	17	19	51	23	29
10	20	04	10	47	00	01	11	38	20	04	23	30
11	19	51	10	25	No.	23	11	58	20	16	23	30
12	19	37	10	05	00	46	12	18	20	28	23	30
13	19	23	09	14	01	10	12	38	20	39	23	29
14	19	08	09	19	01	34	12	58	20	51	23	28
15	18	53	08	57	01	57	13	18	21	02	23	27
16	18	38	08	35	02	21	13	37	21	12	23	21
17	18	23	08	12	02	44	13	56	21	22	23	23
18	18	07	07	49	03	08	14	15	21	32	23	20
19	17	51	07	27	03	31	14	34	21	41	23	17
20	17	34	07	04	03	54	14	52	21	50	23	14
21	17	17	06	41	04	17	11	11	21	59	23	10
22	17	00	06	18	04	41	15	29	21	07	23	06
23	16	43	05	54	05	04	15	46	22	15	23	01
24	16	25	05	31	05	27	16	04	22	23	22	56
25	16	07	05	08	05	49	16	21	22	30	22	50
26	15	49	04	44	06	12	16	33	22	37	22	44
27	15	30	04	21	06	35	16	54	22	43	22	38
28	15	12	03	58	06	57	17	11	22	49	22	32
29	14	53			07	20	17	27	22	55	22	25
30	14	33			07	42	17	43	23	00	22	17
31	14	14			08	04			23	05		

for the third Year after Leap-year.

Days.	July.		Aug.		Sept.		Oct.		Nov.		Dec.	
	North		North		North		South.		South.		South.	
01	22	09	15	17	04	31	07	07	17	33	23	05
02	22	01	14	59	04	08	07	30	17	50	23	10
03	21	53	14	41	03	45	07	53	18	06	23	14
04	21	44	14	23	03	22	08	15	18	22	23	18
05	21	34	14	04	02	59	08	37	18	37	23	21
06	21	25	13	45	02	36	09	00	18	52	23	24
07	21	15	13	26	01	12	09	22	19	07	23	26
08	21	04	13	06	01	49	09	44	19	21	23	28
09	20	53	12	44	01	26	10	06	19	36	23	29
10	20	42	12	27	01	02	10	27	19	49	23	30
11	20	31	12	07	00	39	10	49	20	03	23	30
12	20	19	11	47	00	05	11	10	20	16	23	30
13	20	07	11	27	So.	08	11	31	20	28	23	29
14	19	54	11	06	00	32	11	52	20	40	23	28
15	19	42	10	45	00	55	12	13	20	52	23	27
16	19	28	10	24	01	19	12	34	21	04	23	25
17	19	15	10	03	01	42	12	54	21	15	23	22
18	19	01	09	42	02	06	13	15	21	26	23	19
19	18	47	09	21	02	29	13	35	21	36	23	16
20	18	33	08	59	02	53	13	55	21	46	23	12
21	18	18	08	38	03	16	14	14	21	55	23	07
22	18	03	08	16	03	39	14	33	22	04	23	02
23	17	48	07	54	04	03	14	53	22	13	22	57
24	17	32	07	32	04	26	15	12	22	21	22	51
25	17	16	07	10	04	49	15	30	22	29	22	45
26	17	00	06	47	05	13	15	49	22	36	22	39
27	16	43	06	25	05	36	16	07	22	43	22	31
28	16	27	06	02	05	59	16	24	22	49	22	34
29	16	10	05	40	06	22	16	42	22	55	22	16
30	15	53	05	17	06	45	17	00	23	00	22	07
31	15	35	04	54			17	17			21	59

A Table of the Sun's Declination

Days.	Jan. South.		Feb. South.		Mar. South.		April North		May. North		June. North	
01	21	49	13	59	03	06	08	43	18	10	23	12
02	21	39	13	39	02	52	09	05	18	25	23	16
03	21	29	13	19	02	29	09	26	18	39	23	19
04	21	19	12	59	02	05	09	48	18	54	23	22
05	21	08	12	38	01	42	10	09	19	08	23	24
06	20	56	12	17	01	18	10	30	19	21	23	26
07	20	45	11	56	01	54	10	51	19	35	23	28
08	20	33	11	35	00	30	11	12	19	48	23	29
09	20	20	11	14	00	07	11	33	20	01	23	30
10	20	07	10	52	No.	17	11	53	20	13	23	30
11	19	54	10	31	00	41	12	14	20	25	23	30
12	19	40	10	09	01	04	12	34	20	37	23	29
13	19	26	09	47	01	28	12	53	20	48	23	28
14	19	12	09	25	01	51	13	13	20	59	23	27
15	18	57	09	02	02	15	13	33	21	10	23	25
16	18	42	08	40	02	38	13	52	21	20	23	23
17	18	26	08	17	03	02	14	11	21	30	23	21
18	18	11	07	55	03	25	14	29	21	39	23	18
19	17	55	07	32	03	48	14	48	21	48	23	15
20	17	38	07	09	04	12	15	06	21	57	23	11
21	17	21	06	46	04	35	15	24	22	06	23	07
22	17	04	06	23	04	58	15	42	22	13	23	02
23	16	47	06	00	05	21	15	59	22	21	22	57
24	16	30	05	37	05	44	16	17	22	28	22	52
25	16	12	05	14	06	07	16	34	22	35	22	46
26	15	53	04	50	06	29	16	50	22	42	22	40
27	15	35	04	27	06	52	17	07	22	48	22	33
28	15	16	04	30	07	14	17	23	22	53	22	26
29	14	57	03	40	07	37	17	39	22	58	22	19
30	14	38			07	59	17	54	23	03	22	11
31	14	19			08	21			23	08		

Days	July. North	Aug. North	Sept. North	Oct. South.	Nov. South.	Dec. South.
01	22 03	15 04	04 14	07 25	17 46	23 09
02	21 55	14 55	03 51	07 49	18 02	23 13
03	21 46	14 27	03 28	08 10	18 18	23 17
04	21 37	14 08	03 04	08 32	18 33	23 20
05	21 27	13 49	02 41	08 54	18 49	23 23
06	21 17	13 20	02 18	09 16	19 03	23 25
07	21 07	13 11	01 55	09 38	19 18	23 27
08	20 56	12 52	01 31	10 00	19 32	23 29
09	20 45	12 32	01 08	10 22	19 46	23 29
10	20 34	12 12	00 44	10 44	19 59	23 30
11	20 22	11 52	00 21	11 05	20 13	23 30
12	20 10	11 31	So. 30	11 26	20 25	23 29
13	19 57	11 11	00 26	11 47	20 38	23 28
14	19 45	10 50	00 50	12 08	20 50	23 27
15	19 32	10 29	01 13	12 29	21 01	23 25
16	19 18	10 08	01 37	12 49	21 12	23 23
17	19 04	09 47	02 00	13 10	21 23	23 20
18	18 50	09 26	02 24	13 30	21 33	23 16
19	18 36	09 04	02 47	13 50	21 43	23 13
20	18 21	08 43	03 10	14 09	21 53	23 08
21	18 07	08 21	03 34	14 29	22 02	23 04
22	17 51	07 59	03 57	14 48	22 11	23 58
23	17 36	07 37	04 20	15 07	22 19	22 53
24	17 20	07 15	04 44	15 26	22 27	22 47
25	17 04	06 53	05 07	15 44	22 34	22 40
26	16 47	06 30	05 30	16 02	22 41	22 23
27	16 33	06 08	05 53	16 20	22 48	22 26
28	16 14	05 45	06 16	16 38	22 54	22 18
29	15 57	05 23	06 39	16 55	22 59	22 09
30	15 39	05 00	07 02	17 12	23 04	22 01
31	15 22	04 37		17 29		21 52

The Use of the TABLE *of the* Sun's Declination.

THE Use of this Table is plain and easie: The Year 1682. being the Second after *Leap-year*, the 25*th* of *June* of the said Year, I demand the *Sun*'s *Declination?* Turn to the Table of the *Sun*'s *Declination* for the Second Year, and under the Month *June*, and right against the 25*th* day in the common Angle of Meeting, you have 22 *d.* 49 *m.* which shews the *Sun*'s *Declination* is 22 *d.* 49 *m.* North.

ADVERTISEMENT.

AT Mr. *John Sellers*, at the *Hermitage* Stairs, are Taught these *Mathematical* Sciences, *viz.* Arithmetic, Trigonometry, with the various and most excellent Uses thereof; Geometry, Algebra, Astronomy, Navigation, Dialling, Surveying, Gauging, Gunnery, Fortification; the Use of the Globes, Planispheres, and other Instruments appertaining to the aforesaid *Sciences*.

By *Reeve Williams*, Mariner.

The Use of the following TABLE *of* Meridional Parts.

THIS Table contains three Columns; in the first are the *Degrees* of *Latitude*; in the second the *Minutes* appertaining to those *Degrees*; in the third are the *Meridional Parts* answering to those *Degrees* and *Minutes*, shewing the *Meridional Parts* to every 10 *Minutes* from the *Equinoctial*, to 80 *Degrees*, according to Mr. *Wright*'s Projection.

Example.

Suppose the *Latitude* be 50 *deg.* 10 *min.* the *Meridional Parts* answering thereto are 3490.

Note: To find the *Meridional Parts* between any two *Latitudes*, seek in the Table the *Meridional Parts* for those *Latitudes*, and if the *Latitudes* be both *North* or both *South*, the *Difference*; but if one be *North*, and the other *South*, the Sum of the *Meridional Parts* is the *Difference* of *Latitude* in *Meridional Parts*.

A Table of Meridional Parts.

Latitude.			Lat.		Lat.		Lat.	
D.	M.	Parts	D.	Parts	D.	Parts	D.	Parts
0	60	0000	5	0300	10	0603	15	0910
	10	0010		0310		0613		0921
	20	0020		0320		0623		0931
	30	0030		0330		0633		0941
	40	0040		0340		0644		0952
	50	0050		0350		0654		0962
1	00	0060	6	0360	11	0664	16	0972
	10	0079		0371		0674		0983
	20	0080		0381		0684		0993
	30	0090		0391		0694		1004
	40	0100		0401		0705		1014
	50	0110		0411		0715		1025
2	00	0120	7	0421	12	0725	17	1035
	10	0130		0431		0735		1046
	20	0140		0441		0746		1056
	30	0150		0451		0756		1067
	40	0160		0461		0766		1077
	50	0170		0471		0776		1087
3	00	0180	8	0481	13	0787	18	1098
	10	0190		0491		0797		1109
	20	0200		0502		0807		1119
	30	0210		0512		0817		1130
	40	0220		0522		0828		1140
	50	0230		0532		0838		1151
4	00	0240	9	0542	14	0848	19	1161
	10	0250		0552		0859		1172
	20	0260		0562		0869		1183
	30	0270		0572		0879		1193
	40	0280		0583		0890		1204
	50	0290		0593		0900		1214
5	00	0300	10	0603	15	0910	20	1225

A Table of Meridional Parts.

Latitude.			Lat.		Lat.		Lat.	
D.	M.	Parts	D.	Parts	D.	Parts	D.	Parts
20	00	1225	25	1550	30	1888	35	2244
	10	1236		1561		1900		2256
	20	1246		1572		1911		2269
	30	1257		1583		1923		2281
	40	1268		1594		1935		2293
	50	1278		1605		1946		2306
21	00	1285	26	1616	31	1958	36	2318
	10	1300		1628		1970		2330
	20	1311		1639		1981		2343
	30	1321		1650		1993		2355
	40	1332		1661		2005		2368
	50	1343		1672		2017		2380
22	00	1354	27	1683	32	2028	37	2392
	10	1364		1691		2040		2405
	20	1375		1706		2052		2418
	30	1386		1717		2064		2430
	40	1397		1728		2076		2443
	50	1408		1740		2088		2456
23	00	1419	28	1751	33	2100	38	2468
	10	1430		1762		2111		2481
	20	1440		1774		2123		2494
	30	1451		1785		2135		2506
	40	1462		1797		2147		2519
	50	1473		1808		2159		2532
24	00	1484	29	1819	34	2171	39	2545
	10	1495		1831		2183		2548
	20	1506		1842		2196		2571
	30	1517		1854		2208		2584
	40	1528		1865		2220		2597
	50	1539		1877		2232		2610
25	00	1550	30	1888	35	2244	40	2623

A Table of Meridional Parts.

Latitude.			Lat.		Lat.		Lat.	
D.	M.	Parts	D.	Parts	D.	Parts	D.	Parts
40	00	2623	45	3030	50	3475	55	3968
	10	2636		3044		3490		3986
	20	2649		3056		3506		4003
	30	2662		3073		3521		4021
	40	2675		3087		3537		4038
	50	2688		3101		3553		4056
41	00	2701	46	3116	51	3569	56	4074
	10	2715		3130		3585		4092
	20	2728		3144		3601		4110
	30	2741		3160		3617		4128
	40	2755		3173		3633		4146
	50	2768		3188		3649		4164
42	00	2782	47	3203	52	3665	57	4183
	10	2795		3217		3682		4201
	20	2809		3232		3698		4220
	30	2822		3247		3714		4238
	40	2836		3262		3731		4207
	50	2849		3277		3747		4276
43	00	2863	48	3292	53	3764	58	4294
	10	2877		3303		3780		4313
	20	2890		3322		3797		4332
	30	2904		3337		3814		4352
	40	2918		3352		3831		4371
	50	2936		3367		3848		4393
44	00	2942	49	3382	54	3865	59	4409
	10	2960		3397		3882		4429
	20	2974		3413		3900		4448
	30	2988		3428		3917		4468
	40	3002		3443		3933		4488
	50	3016		3459		3951		4508
45	00	3030	50	3475	55	3968	60	4528

A Table of Meridional Parts.

Latitude.			Lat.		Lat.		Lat.	
D.	M.	Parts	D.	Parts	D.	Parts	D.	Parts
60	00	4528	65	5179	70	5967	75	6971
	10	4548		5203		5996		7010
	20	4568		5227		6026		7050
	30	4588		5251		6055		7090
	40	4608		5275		6085		7130
	50	4629		5299		6116		7170
61	00	4649	66	5324	71	6146	76	7211
	10	4670		5349		6177		7253
	20	4691		5373		6208		7295
	30	4712		5398		6240		7338
	40	4733		5424		6271		7381
	50	4754		5449		6303		7424
62	00	4775	67	5474	72	6336	77	7496
	10	4797		5500		6368		7513
	20	4818		5526		6401		7559
	30	4840		5552		6434		7605
	40	4861		5578		6468		7651
	50	4883		5605		6501		7698
63	00	4905	68	5631	73	6535	78	7746
	10	4927		5658		6500		7795
	20	4950		5685		6604		7844
	30	4972		5712		6639		7894
	40	4994		5740		6645		7944
	50	5017		5767		6711		7995
64	00	5040	69	5795	74	6747	79	8047
	10	5063		5823		6783		8100
	20	5086		5851		6820		8154
	30	5109		5851		6857		8208
	40	5132		5909		6895		8264
	50	5156		5937		6933		8320
65	00	5179	70	5967	75	6971	80	8372

The Table of Latitude *and* Departure *gives the* Diff. Lat. *and* Dep. *the Course and Diſtance being given.*

THis Table contains ſeven Columns: In the firſt and ſeventh are the *Points* and *Quarter-Points* of the *Compaſs*; in the firſt, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 *Point*, *&c.* in the ſeventh, 8 *Points*, $7\frac{1}{4}$, $7\frac{1}{2}$, $7\frac{3}{4}$; in the ſecond Column under *D* ſtands 1, 2, 3, *&c.* to 10, which is the *Diſtance* ſailed; in the third, fourth, fifth, and ſixth Columns, which are diſtinguiſhed with *Dep.* and *Lat.* is the Difference of *Latitude* and *Departure*.

Example 1. *Suppoſe a Ship ſails* N N E $\frac{1}{2}$ E 8 *Leagues, to find the Diff. Lat. and Dep.*

The *Courſe* is 2 $\frac{1}{2}$, and right againſt 8 the *Diſtance* ſtands |3|771 under *Dep.* and |-|055 under *Lat.* which ſhews the *Departure* to be 3 *Leagues* $\frac{771}{1000}$, or 3 *Leagues* $\frac{8}{10}$, and the *Diff. Lat.* 7 *Leagues* $\frac{55}{1000}$, not 1 Tenth more.

Example 2. *A Ship ſails* S W by W 75 *Leagues, to find the Diff. Lat. and Dep.*

Above 5 *Points*, and againſt 7, which now ſtands for 70, ſtands |6|820 over *Dep.* and over *Lat.* |3|888, that is, the *Dep.* is 60 $\frac{8}{10}$, and the *Diff. Lat.* 30 *Leagues* $\frac{2}{10}$, then for 5 *Leagues* the *Dep.* is 4 $\frac{1}{10}$, and the *Diff. Lat.* 2 *Leagues* $\frac{8}{10}$, being added together, makes the *Dep.* required to be 64 $\frac{2}{10}$, and the *Diff. Lat.* required to be 33 *Leagues* $\frac{3}{10}$.

This Table readily sheweth ye exact day of ye N
her true Age: for Fifteene year

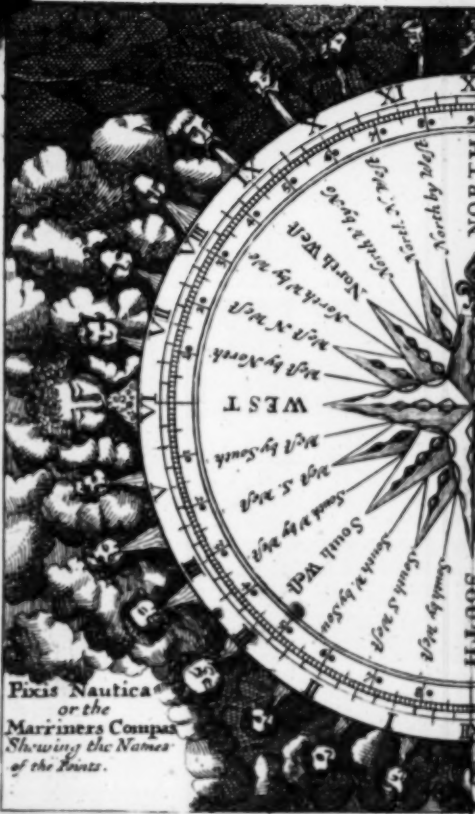
	1680		1681		1682		1683		1684		168
	●	○	●	○	●	○	●	○	●	○	●
January.	21	5	9	23	28	13	17	3	6	22	24
February	19	4	8	22	27	11	16	1	5	20	23
March.	20	5	9	24	28	13	18	2	6	21	24
Aprill.	18	3	8	22	27	11	16	30	4	20	23
May.	18	3	7	22	26	11	16	30	4	18	23
Iune.	16	2	6	20	25	9	14	28	3	17	21
Iuly.	15	31	5	19	24	9	14	28	2	16	21
August.	14	29	3	20	22	8	12	26	30	14	19
September	12	27	2	17	21	6	10	25	28	13	18
October.	13	27	31	17	20	6	10	25	28	13	17
November	11	25	29	15	20	5	8	24	26	12	16
December	11	25	29	15	18	4	8	23	26	11	15

of ye New and full Moone as likewise
e years to come from ye year 1680, to 1700

84	1685		1686		1687		1688		1689		1690		1691		1692	
○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○
22	24	10	13	29	3	18	22	7	11	25	30	14	20	4	8	23
20	23	9	12	28	2	17	21	6	9	24	28	13	18	2	7	21
21	24	10	14	29	3	18	21	7	11	26	30	14	20	4	7	22
20	23	9	12	28	2	17	20	5	9	24	28	14	18	2	6	20
18	23	8	12	27	30	17	19	5	9	24	28	13	17	231	6	20
17	21	6	10	25	29	15	17	3	7	22	26	11	16	30	4	18
16	21	6	10	24	29	14	17	3	6	22	25	11	15	30	4	18
14	19	4	9	23	27	13	15	31	5	20	24	9	13	28	31	16
13	18	2	7	21	26	11	14	29	3	19	22	8	12	27	30	5
13	17	2	7	21	25	10	14	28	3	18	22	8	11	26	29	15
12	16	130	5	20	24	9	12	27	1	16	20	6	9	25	27	13
11	15	30	5	19	24	8	12	26	31	16	20	6	9	25	27	13

A Table shewing y Dominical letter Cyrc
golden Number for 56 years from th

Cyrcle of ye Sun Epact and
from the yeare 1676



Pixis Nautica
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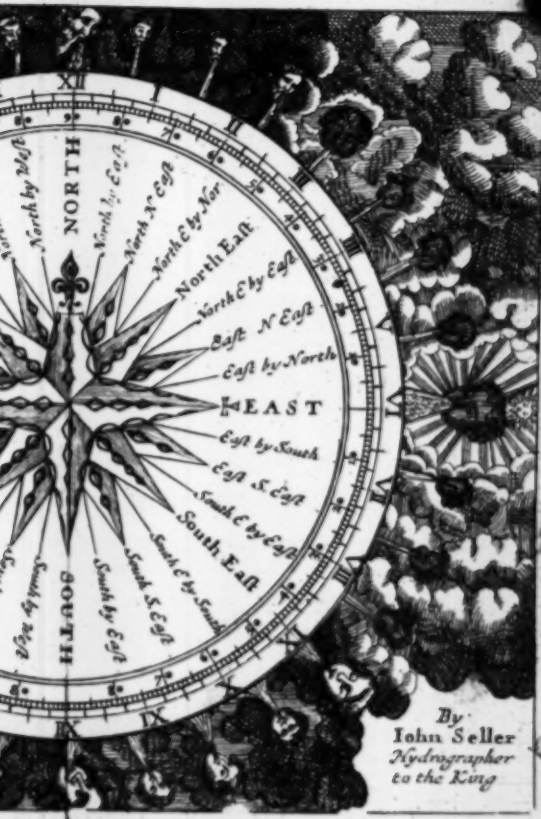
Marriners Compas
Shewing the Names of the Points.



By
John Seller
Hydrographer
to the King

Spheræ
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Articus
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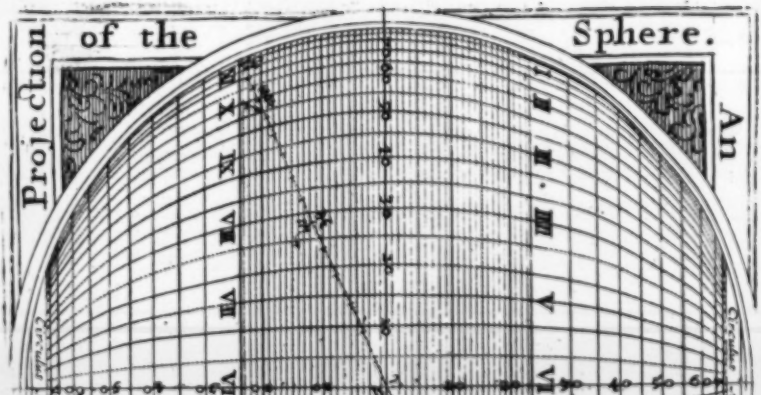
Projection of the Sphere.
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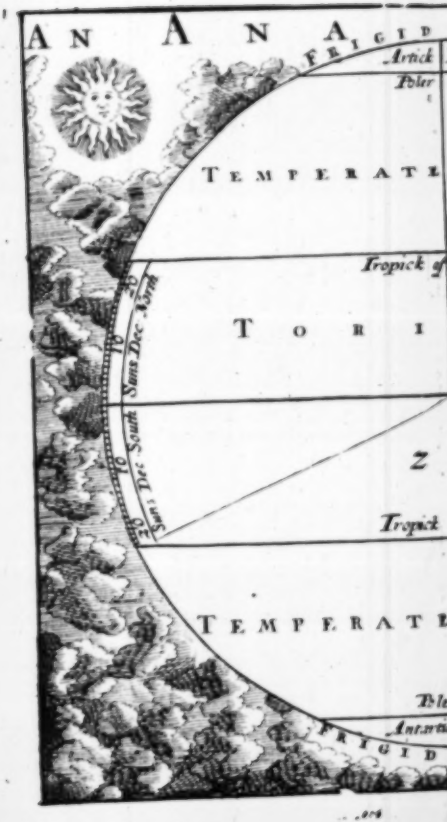
Analema or the orthographick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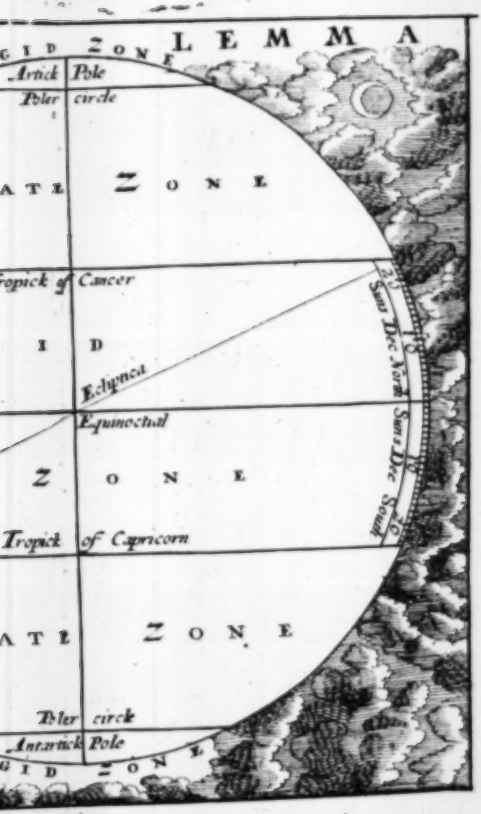
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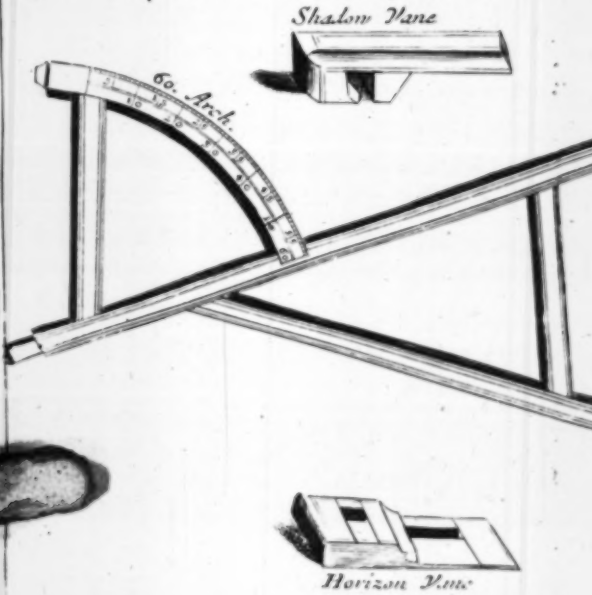
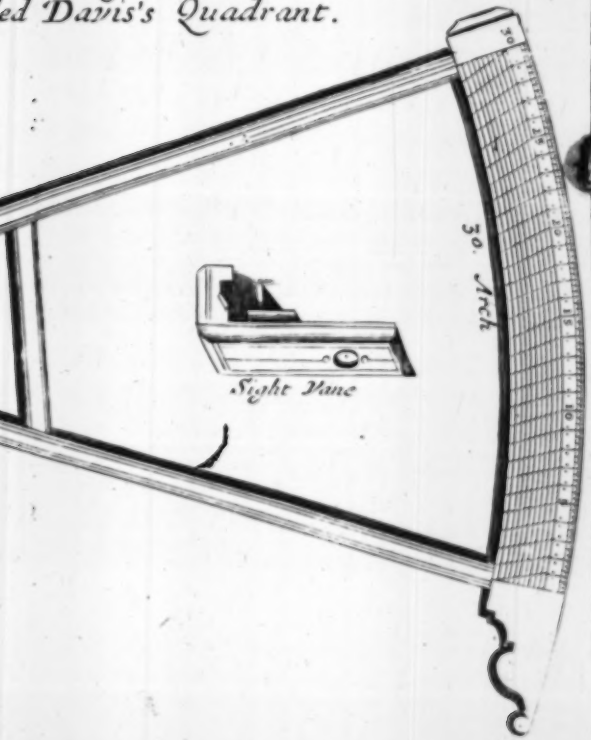
Antartick Pole
GID ZONE
Suns Dec North
Suns Dec South

A Figure of the most Excellent Instrume
by one Capt. Davis and therfore called D



rument for Sea observation contrived
ed Davis's Quadrant.



A Table of ☉ Suns Right Ascen:

Day	Janua: ☉ Right Ascen: H · M	Febr: ☉ Right Ascen: H · M	March ☉ Right Ascen: H · M	April. ☉ Right Ascen: H · M	May. ☉ Right Ascen: H · M	June. ☉ Right Ascen: H · M
1	19 · 35	21 · 42	23 · 28	01 · 21	03 · 14	05 · 19
2	19 · 39	21 · 46	23 · 32	01 · 25	03 · 18	05 · 23
3	19 · 43	21 · 50	23 · 36	01 · 29	03 · 22	05 · 27
4	19 · 47	21 · 54	23 · 39	01 · 33	03 · 26	05 · 31
5	19 · 51	21 · 58	23 · 43	01 · 36	03 · 30	05 · 36
6	19 · 56	22 · 02	23 · 46	01 · 40	03 · 34	05 · 40
7	20 · 00	22 · 06	23 · 50	01 · 44	03 · 38	05 · 44
8	20 · 04	22 · 10	23 · 53	01 · 47	03 · 42	05 · 48
9	20 · 09	22 · 14	23 · 57	01 · 51	03 · 46	05 · 52
10	20 · 13	22 · 17	00 · 01	01 · 54	03 · 50	05 · 56
11	20 · 17	22 · 21	00 · 05	01 · 58	03 · 54	06 · 00
12	20 · 22	22 · 25	00 · 08	02 · 02	03 · 58	06 · 04
13	20 · 26	22 · 29	00 · 12	02 · 06	04 · 02	06 · 08
14	20 · 30	22 · 33	00 · 15	02 · 10	04 · 06	06 · 12
15	20 · 34	22 · 36	00 · 19	02 · 13	04 · 10	06 · 17
16	20 · 38	22 · 40	00 · 23	02 · 17	04 · 14	06 · 21
17	20 · 42	22 · 44	00 · 26	02 · 21	04 · 18	06 · 25
18	20 · 46	22 · 48	00 · 30	02 · 25	04 · 22	06 · 29
19	20 · 50	22 · 52	00 · 33	02 · 29	04 · 26	06 · 33
20	20 · 54	22 · 55	00 · 37	02 · 32	04 · 30	06 · 38
21	20 · 58	22 · 59	00 · 41	02 · 36	04 · 34	06 · 42
22	21 · 03	23 · 03	00 · 44	02 · 40	04 · 38	06 · 46
23	21 · 07	23 · 06	00 · 48	02 · 44	04 · 42	06 · 50
24	21 · 11	23 · 10	00 · 52	02 · 48	04 · 46	06 · 54
25	21 · 15	23 · 13	00 · 55	02 · 51	04 · 50	06 · 58
26	21 · 19	23 · 17	00 · 59	02 · 55	04 · 54	07 · 02
27	21 · 23	23 · 21	01 · 03	02 · 59	04 · 58	07 · 06
28	21 · 27	23 · 25	01 · 06	03 · 03	05 · 02	07 · 10
29	21 · 31		01 · 10	03 · 07	05 · 06	07 · 14
30	21 · 35		01 · 14	03 · 10	05 · 11	07 · 19
31	21 · 38		01 · 17		05 · 15	

A Table of ☉ Suns Right Ascen:

Days	July. ☉ Right Ascen: H · M	August. ☉ Right Ascen: H · M	Septem. ☉ Right Ascen: H · M	Octo: ☉ Right Ascen: H · M	Novem. ☉ Right Ascen: H · M	Decem. ☉ Right Ascen: H · M
1	07 · 23	09 · 25	11 · 10	13 · 08	15 · 07	17 · 15
2	07 · 27	09 · 29	11 · 23	13 · 12	15 · 11	17 · 20
3	07 · 31	09 · 33	11 · 26	13 · 15	15 · 15	17 · 25
4	07 · 35	09 · 37	11 · 30	13 · 19	15 · 19	17 · 29
5	07 · 39	09 · 40	11 · 33	13 · 22	15 · 23	17 · 34
6	07 · 43	09 · 44	11 · 37	13 · 26	15 · 27	17 · 38
7	07 · 47	09 · 48	11 · 41	13 · 30	15 · 31	17 · 42
8	07 · 51	09 · 51	11 · 44	13 · 34	15 · 36	17 · 47
9	07 · 55	09 · 55	11 · 48	13 · 38	15 · 40	17 · 51
10	07 · 59	09 · 58	11 · 51	13 · 41	15 · 45	17 · 56
11	08 · 03	10 · 02	11 · 55	13 · 45	15 · 49	18 · 00
12	08 · 07	10 · 06	11 · 59	13 · 49	15 · 53	18 · 05
13	08 · 11	10 · 10	12 · 02	13 · 53	15 · 58	18 · 09
14	08 · 15	10 · 14	12 · 06	13 · 57	16 · 02	18 · 14
15	08 · 19	10 · 17	12 · 09	14 · 00	16 · 07	18 · 19
16	08 · 23	10 · 21	12 · 13	14 · 04	16 · 11	18 · 24
17	08 · 27	10 · 25	12 · 17	14 · 08	16 · 15	18 · 28
18	08 · 31	10 · 28	12 · 20	14 · 12	16 · 19	18 · 33
19	08 · 35	10 · 32	12 · 24	14 · 16	16 · 23	18 · 37
20	08 · 39	10 · 35	12 · 27	14 · 20	16 · 28	18 · 41
21	08 · 43	10 · 39	12 · 31	14 · 24	16 · 32	18 · 45
22	08 · 47	10 · 43	12 · 35	14 · 28	16 · 36	18 · 49
23	08 · 51	10 · 46	12 · 38	14 · 32	16 · 40	18 · 54
24	08 · 55	10 · 50	12 · 42	14 · 36	16 · 44	18 · 58
25	08 · 58	10 · 53	12 · 45	14 · 39	16 · 49	19 · 03
26	09 · 02	10 · 57	12 · 49	14 · 43	16 · 53	19 · 07
27	09 · 06	11 · 01	12 · 53	14 · 47	16 · 57	19 · 11
28	09 · 10	11 · 04	12 · 57	14 · 51	17 · 02	19 · 16
29	09 · 14	11 · 08	13 · 01	14 · 55	17 · 06	19 · 20
30	09 · 17	11 · 11	13 · 04	14 · 59	17 · 11	19 · 25
31	09 · 21	11 · 15		15 · 03		19 · 30

A Table of ye Magnitudes, Right Ascention in Hours and Minuts, and Degrees and Minuts, & ye Declination North or South of 33 fixed Stars.

Names of ye Stars	M	R. Asc.	Decl.	R. Asc.	N
		D. M.	D. M.	H. M.	S
Pole Star or Last in ye little bear	2	7 · 55	87 · 33	0 · 32	N
Andromedas Girdle.	2	12 · 51	33 · 50	0 · 50	N
Medusaes head.	3	41 · 27	30 · 35	2 · 46	N
Perseus right side.	2	44 · 30	48 · 33	2 · 58	N
Middle of the Pleades.	5	51 · 22	23 · 06	3 · 26	N
Bulls eye.	1	64 · 0	15 · 28	4 · 16	N
Hercus or Goat.	1	72 · 44	45 · 36	4 · 51	N
Orions left foot.	1	74 · 30	8 · 38	4 · 58	S
Mid star in Orions Girdle.	2	79 · 45	1 · 28	5 · 19	S
Orions right shoulder.	2	84 · 5	7 · 18	5 · 36	N
Aurigæ or Waggoner.	2	84 · 45	44 · 56	5 · 39	N
Great Dog.	1	97 · 24	16 · 13	6 · 30	N
Castor or Apollo.	2	108 · 00	32 · 30	7 · 12	N
Little dog.	1	110 · 20	6 · 6	7 · 21	N
Pendlux or Hercules.	2	116 · 25	28 · 48	7 · 22	N
Hydraes heart.	1	137 · 30	7 · 10	9 · 10	S
Lyons heart.	1	147 · 30	13 · 39	9 · 50	N
Great Bears fore guard.	2	166 · 48	63 · 32	10 · 43	N
Lyons tayl.	1	172 · 45	16 · 32	11 · 31	N
Virgins Spike.	1	196 · 45	9 · 11	13 · 07	N
Last in Great Bears tayl.	2	203 · 30	51 · 5	13 · 34	N
Arcturus.	1	209 · 50	21 · 4	14 · 00	N
Little Bears fore guard.	2	222 · 46	75 · 36	14 · 52	N
Brightest in ye Crown.	3	231 · 00	27 · 43	15 · 24	N
Scorpions heart.	1	242 · 23	25 · 37	16 · 09	S
Hercules head.	3	254 · 40	14 · 51	16 · 59	N
Lyra, or harp.	1	276 · 47	38 · 30	18 · 25	N
Eagle, or Vulture.	1	293 · 28	8 · 1	19 · 35	N
Swans tayl.	2	305 · 30	44 · 5	20 · 30	N
Dolphins head.	3	307 · 55	15 · 0	20 · 32	N
Pegasus mouth.	1	321 · 50	8 · 19	21 · 27	N
Fomahant.	3	339 · 30	31 · 17	22 · 38	S
Pegasus lower wing.	2	358 · 50	13 · 22	23 · 55	N

A Table of the Latitudes of the Principal Cityes, Townes, and Ilands in & about Great Britain & Ireland

ENGLAND	° ′
Arundel	51.00
Barwick	55.54
Bedford	52.15
Bristol	51.31
Buckingham	52.10
Cambridg	52.12
Canterbury	51.25
Carlile	53.20
Chester	53.20
Chichester	50.48
Colchester	52.08
Dover	51.20
Derby	53.00
Dorchester	50.50
Durham	55.00
Exeter	50.50
Falmouth	50.22
Gudford	51.14
Glocester	52.00
Hertford	51.50
Hereford	52.07
Huntington	52.30
Ipwich	52.20
Kendall	54.24
Lancaster	54.15
Leicester	52.45
Lincoln	53.20
London	51.32
Northampton	52.24
Norwich	52.45
Newcastle	55.12
Nottingham	53.00
Oxford	51.45
Portsmouth	51.08
Plimouth	50.36
Reading	51.40
Salisbury	51.12
Stafford	52.50
Shrewsbury	52.50
Stamford	52.44
Truro	50.30
Warwick	52.30
Winchester	50.20
Worcester	52.25
York	54.00

WALES	° ′
Anglesey	53.28
Brecknock	52.10
Cardigan	52.12
Carmarthen	52.58
Carnarvon	53.18
Denbigh	53.15
Flint	53.18
Landaff	51.36
Monmouth	51.52
Montgomery	52.56
Pembroke	51.46
Radnor	52.20
St. Davids	52.00

ISLANDS	
Garnsey	49.30
Jarsey	49.22
Lundy	51.22
Man	54.24
Portland	50.30
Wight	50.30

SCOTLAND	
Aberdine	57.32
Dumblain	56.21
Dundee	56.30
Dunkel	56.28
Edinburgh	56.00
Glascow	55.50
Orkney	60.06
St. Andrews	56.39
Sterling	56.12

IRELAND	
Antrim	54.30
Argles	54.10
Armagh	54.14
Clare	52.34
Cork	51.57
Dredagh	53.38
Dublin	54.27
Dundall	53.52
Galloway	53.02
Kildare	53.00
Knockfergus	54.37
Kinsale	51.41
Limerick	52.10
Waterford	52.00
Wexford	52.18

Problems of Plain Sailing.

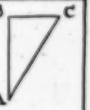
Problem I.

A Ship sails S.S.W. ¼ W. 70 Leag. I Demand her Dep.r & Dif Lat.

For the Dep.r BC:		*For the Dif: Lat:* AB	
As Rad.	100000	*As Rad.*	100000
to y.e Dist. AC 70	18450	*to Dist.* AC 70	18450
So is S. Cour. ∠BAC. 24.f	97109	*So is Co.* ACB 54.f	99333
to Depa. BC 36 *l*	1:15559	*to Dif lat* AB. 60:	1:17783

Problem II.

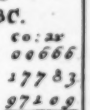
A Ship sails S.S.W. ¼ W.t & has alterd her Lat. 60 l. I demand her Distance and Dep.r



For the Distance AC.		*For the Dep.r* BC.	
			co: ar
As S.t Cour. ACB. 54.f	99333	*As S.t Cour.* AB. 54.f	00666
to Dif: Lat: AB. 60 l	17783	*to Dif. Lat.* AB. 60 l	17783
So is Rad.	100000	*So is Co.* BAC. 24.f	97109
to Dist. AC 70 l	18450	*to Dep.* BC. 36 l	11555 8

Problem III.

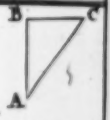
A Ship sails S.S.W. ¼ W. and is Dep.r from y.e Merid.n 36 Leag. I demand her Dist.t sailed and Dif. of Latitude.



For her Dist.t sailed AC.		*For Dif. Lat.* AB.	
			co: ar
As S. Cour. BAC. 24.f	97109	*As S. Co:* BAC. 24.f	02890
is to Dep. BC. 60 l	15559	*to y.e Dep.r* BC 36	15563
So is Rad.	100000	*So is S.t Co.* ACB. 54.f	99333
to Dist. AC. 70 l	18450	*to Dif. Lat.* AB. 60 l	11786

Problems of Plain Sailing

Problem IV.



A Ship being in a Certain Paralel sailes betwene the S.e and W.t 70 leagues & has altered her Lat. 60 Leg. I D. her Course and Departur.

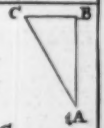
For the Course		For the Departure	
As y^e Dist. Run AC. 70:	18450	As the Rad. 90:	100000
is to the Rad.	100000	is to Dist. 70:	18450
So is ye Dif. Lat. 60	17781	So is Sine 2½	97109
to ye Comp Co: 5p½ 2	99331	to Dep.	1:15559
Comp is 2½p			

Problem V.

A Ship sailes in the N. E. quadrant 70 l and is Dep^ted from the Merid. 36 Leag: I demand her Course & Dif. of Lat.

For the Course		For y^e Dif. Lat.	
As Dist. Run AC. 70 l	18450	As y^e Rad. 90:	100000
is to Rad. 90:	100000	to Dis AC 70 l	18450
So is Dep. BC. 36	15550	So is Cou. Sin^e Cou: 5½p	99331
to Sine Course 2½	97109	to Dif. Lat. AB 60.	1:17781

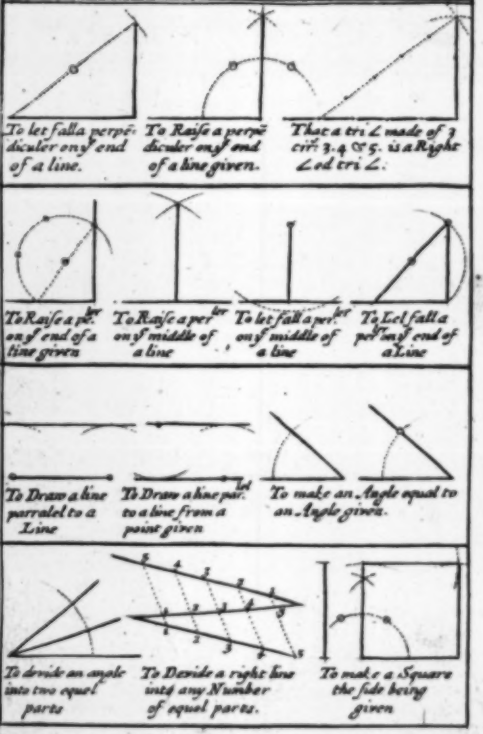
Problem VI.



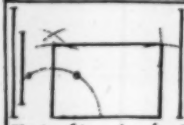
A Ship saile betweene the S. & E. until she has alt^red her Lat. 60 Leag. and is Dep^d from y^e Merid. 36 Leag: I D. her Cour. & Dist.

For the Course BAC.		For the Dist AC.	
As y^e Dif. Lat. AB. 60 l	17783	As y^e S. Cou: BAC 2¾	07109
is to y^e Dep. BC. 36 l	15560	is to y^e Dep. BC 60 l	15563
So is y^e Tang: 45	100000	So is the Rad.	100000
to y^e Ta: of y^e Cou: 2¾p	97777	to y^e Dist AC 70 l	18454

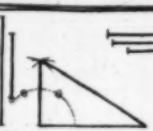
Geometrical Rudiments.



Geometrical Rudiments.



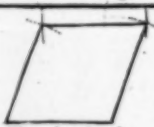
Having y^e length and breadth of a long square to draw the same.



Having the Base and perpendiculer to make a Triangle.

Having the 3 cr^s of a tri ∠ to make the same.

∠ B C D Obtuse ∠.
∠ D C A. Acute ∠.

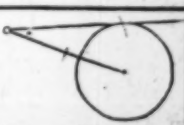


To make a Rombus the side given.

To make a Romboids the sides given.

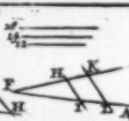
To make a Circle pas through any 3 ponts.

To make a Pentagon.

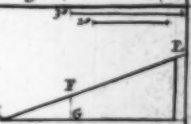


From a poin^t assigned to draw a touch line to the given Circle.

Two lines given to find a third Proportinal.



Three lines given to Find a Fourth Proportinal.



To deride a line in two parts in Proportion to two lines given.

A Synopsis of Plaine Trigonometry.

of Right Angled Triangles of Oblique Triangles

Axiome 1 of right angled Triangles

In all plain ℔s any of ỹ Cr̃s may be made R. & ỹ other Cr̃s will be Sr̃s Sc̃s & m̃s Pportion ỹ Cr. put for R. hath to R. ỹ same Pportion hath ỹ other Cr̃s to ỹ Sr̃s & Sc̃s by them represented.

Axiome 2 of Oblique Triangles.

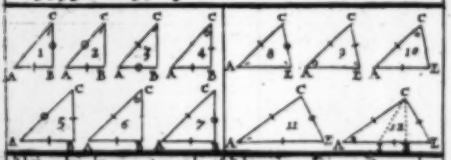
In all plain ℔s Cr̃s are in Pportion one to another as ỹ ℔s of ỹ Cr̃s

Axiome 3.

In all plain ℔s as ỹ Z of 2 Cr̃s X unto Z of ỹ 2ⁿᵈ ℔ to ỹ r. of ỹ X of either of them above or under ỹ ℔ Z.

Axiome 4

In all plain ℔s as ỹ base is in Pportion 2 of ỹ other Cr̃s :: X of those Cr̃s :: X of ỹ segments of ỹ base.

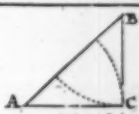


	Dat:	Req	Proportional	Axi		Dat:	Req	Proportional	Ax
1	AB or C	CB	R. tA :: AB : CB	1	8	AE or AC	EC	rE. sA :: AC : EC	2
2		AC	r. CB :: AB : AC	1	9	AC. EC or E	A	AC : EC :: rE : sA	2
3	AC or CB	AB	R. sC :: AC : AE	1		AE Long	E	{AE+AC . AE−	
4	AB or CB	C	CB.AB :: R. tC	1	10	:A: AC Short	or C	AC :: rE : +C tE	3
5		AC	{CB.AB :: R. tC} CB :: AB : AC	1				tE+D {+E is C −E is E	
6	AB or AC	C	AC.AB :: R. tC	1	11	AE A	EC	by ỹ last case of ỹ 2	2 or
7		BC	R. tA :: AB : BC	1		AC		Alsoby ỹ 8 Case	3
	or for this Last		AC AC +: CB :: CB :− AB AB		12	AE Base AC Long EC Short	A	AE.AC+EC :: AC−E :CA :: ½AE.AA :: E : ½AE+or−EC :: AB ch: by ỹ 6 Case AC.AB :: E : rA or EC.EB :: R. rt E	4

Demonstrations of the 4 Axiomes of plaine Trigonometrie.

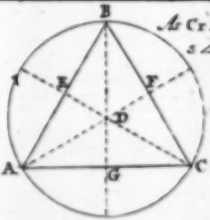
Axiome 1.

AB. R. BC. is the s of ye ∠BAC.
AC. is the s of the ∠ABC.



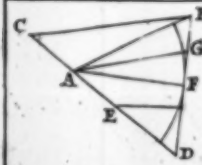
AC. R. BC t. of the ∠BAC.
& AB s.t BC R. AC. t of ye
∠ABC. BA. s.t

Axiome 2.



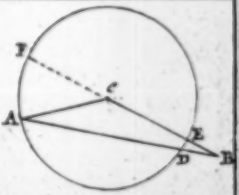
As Cr AB. is : Cr BC. ::
s ∠ADB. to ∠DBC.
& contra

Axiome 3.



As Z Crs. AB. & AC. wch is
CD. : × ED. :: t ∠BAF.
wch is FB. to t FG.

Axiome 4.



As base AB. : Z crs AC. & BC
wch is BF. :: × EB. to BD.

A Synopsis of 3 Fundamental

The S. of ye middle pt. + B::= (or reciprocally pportional) wth ye ts. of ye middle pt. or either of ye extreames conjunct be noted wth its compls in the instead of ye S. or t. you must use ye Cs. or ct. and inye disjunct's instead of

Of right angled Triangles

Midle pt. 1. extreā disjunct — *Equal ty Univer.* — *Analogism's*

Midle pt. 2. extream conjunct — *Equal ty Univer.* — *Analogismes*

s BC + B = s AC + s A	s AC : B :: s BC : s A	cs AC + B = ct C + ct A	ct C : B :: cs AC : ct A
cs A + B = cs CB + s C	as cs CB : B :: ct A : s C	cs A + B = cs AB + ct AC	as cs AB : B :: cs A : ct AC
cs AC + B = cs BC + cs AB	cs BC : B :: cs AC : cs AB	cs AB + B = ct A + ct CB	ct A : B :: cs AB : ct CB

No.	Dat	Req	Operation or Equality
1	AB	CB	s AB + ct A = t CB
2	A	C	cs AB + s A = cs C
3		AC	cs A + t AB = t AC
4	CB	C	co Ar: cs CB + cs A = s C
5	A	AC	co Ar: s A + s CB = s AC
6		AB	ct A + t CB = s AB
7	AC	AB	cs A + t AC = t AB
8	A	CB	s AC + s A = s CB
9		C	cs AC + ct A = ct C
10	AB	AC	cs CB + cs AB = cs AC
11	CB	A	s AB + t CB = ct A
12	AB	CB	co Ar: cs AB + cs AC = cs CB
13	AC	A	t AB + ct AC = cs A
14	AC CB	A	co Ar: s AC + s CB = s A
15	A	CB	co Ar: s C + cs A = cs CB
16	C	AC	ct C + ct A = cs AC

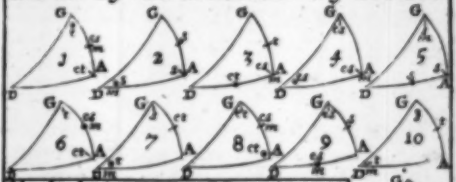
Spherical Trigonometry

Axiom.

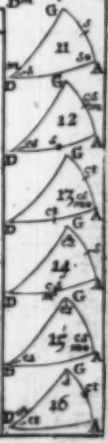
extreames conjunct and ye cs: of ye extreames disjunct. Note if the circular pts of ye △ (that is either ye Hypothenusa or either of ye acute △) ye Sc. ye S. of such an extream disjunct as in this table

Of Quadrantal triangles

Midl. pt. 2. extream conjunct. Equal. Univer.	Anologismes	Midl. pt. 2 extreame disjunct Equal. Univer.	Anologismes
sG+B=ctAG+tD	ctAG:B::sG:tD	sG+B=sA+sAD	sA:B::sG:sAD
csAG+B=ctA+tG	as ctA:B::csAG:tG	csAG+B=csD+sAD	as csD:B::csAG:sAD
csA+B=ctGA+ctAD	ctGA:B::csA:ctAD	csA+B=csG+csD	csAG:B::csA:csD



No.	Dat	Req	Operation or Equality
1	AG	G	csAG + ct A = t G
2	A	D	sAG + s A = s D
3		AD	csA + tAG = ct AD
4	A	D	co.Ar: cs G + cs A = cs D
5	G	AD	co.Ar: s A + s G = sAD
6		AG	ct A + t G = cs AG
7	AG	D	s G + ctAG = t D
8	G	A	csAG + ct G = ct A
9		AD	sAG + cs G = cs AD
10	AG	G	tAG + t D = s G
11	D	A	co.Ar: sAG + s D = s A
12		AD	co.Ar: cs D + csAG = s AD
13	AG	A	ctAG + ctAD = cs A
14	AD	G	co.Ar: sAG + csAD = cs G
15	D	A	cs D + cs G = cs A
16	G	AG	s G + ct D = ct AG



3 Axiom

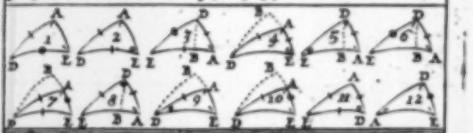
In all Spherical^{ll} *ꝗ Sides of ꝗ Circ are in such Pportion to each other as are ꝗ Sines of their* ℳ^{ts} *Ls*

3 Axiom

An Oblique Spherical^{l} *being parted into* 2 *Rt* ▵^{s} *ꝗ middle part in ꝗ one is in Pportion to ꝗ middle* p^{t} *in ꝗ other and ꝗ extream in ꝗ one to ꝗ extream in ꝗ other*

4 Axiom

As ꝗ rect L *of ꝗ* S^{s} *of ꝗ containing* C^{s} *of* □ *of* R :: *rect* L *of ꝗ* S^{s} *of ꝗ forsaid* Z *and remainer:* □ *of ꝗ* S *of* ½ *ꝗ contained* Z.

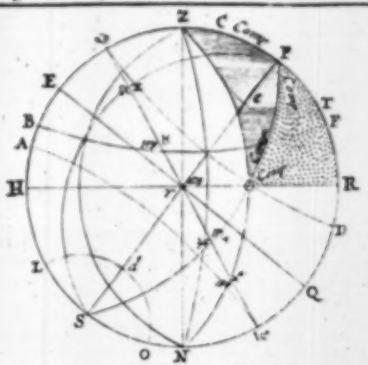


Cs	Dat	Req	Proportionality
1	A E AB AB	ED	ꝗ L. ꝗ AD :: ꝗ A. ꝗ ED
2	A ED	E	ꝗ ED. ꝗ A :: ꝗ AD. ꝗ E
3	AD	LD	R. or Rem^{d}. AB & AL is EB Cs AD. Cs EB :: Cs AD. Cs LD R. Cs A :: t AD. t AB
4	AL	L	Z or Rem^{d}. AB & AL is EB ꝗ EB. ꝗ AB :: t A. ꝗ E R. Cs AD :: t A. Cs BDA
5	AD	L	Z or Rem^{d}. BDA & D is BDL ꝗ BDA. ꝗ BDE :: Cs A. Cs L
6	A D	LD	R. Cs AD :: t A. Cs BDA Z or Rem^{d}. BDA & D is BDL Cs BDL. Cs BDA :: t AD. t LD
7	AD	AE	R. Cs A :: t AD. t AB Cs AD. Cs ED :: Cs AB. Cs EB Z or ✕ AB & EB is AE
8	A ED	D	R. Cs AD :: t A. Cs BDA Cs AD. Cs LD :: Cs BDA. Cs BDL Z or ✕ BDA & BDL is D
9	AD	D	R. Cs AD :: t A. Cs BDA Cs A. Cs L :: Cs BDA. Cs BDL Z or ✕ BDA & BDL is D
10	A E	AE	R. Cs A :: t AD. t AB Z or ✕ AB & EB is AE

Equality

	AD		½ AE + ½ ✕ AD & ED is ZY
11	ED	D	½ AE − ½ ✕ AD & LD is rema G
	AE		C. ꝗ AD. C ꝗ ED :: ZY. rema. G. ½ is ꝗ ½ D
	A		½ A + ½ ✕ L & D is ZY
12	D	ED	½ A − ½ ✕ L & D is rema. G
	E		Cꝗ D. Cꝗ E :: Z or Y. rema. ꝗ G ½ is ꝗ ½ ED

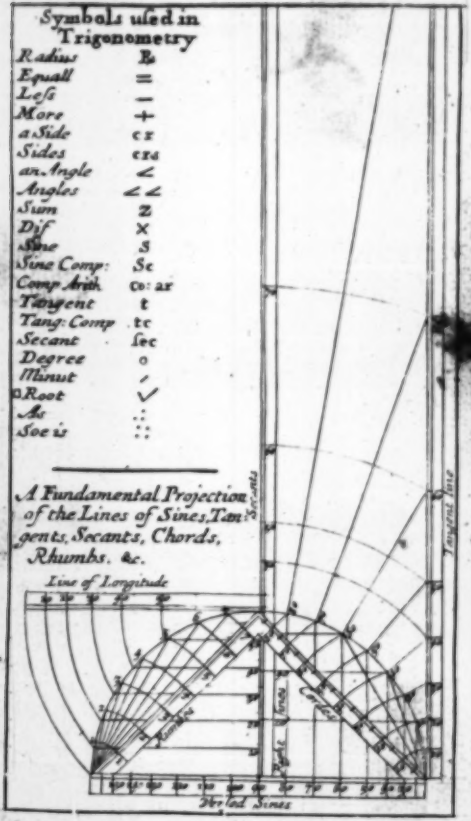
A Sterographick Projection of the Sphere Lat: 51: 32.



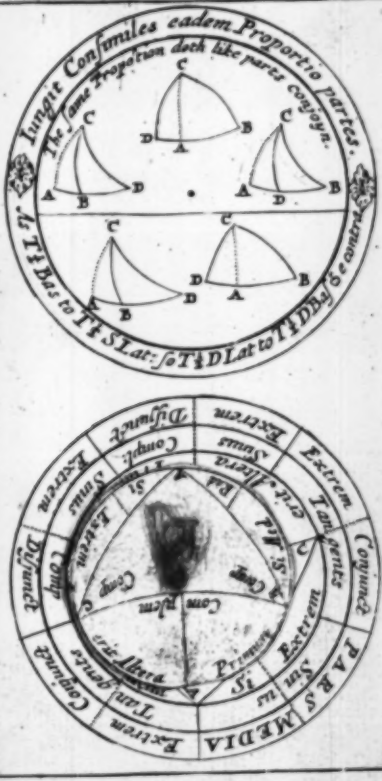
In the Right-angled Tryangle ⊙KP.			In the Quadrantal Tryangle ⊙PZ.		
Mid. part	*Extr. Comp*	*Ext. Disj.*	*Mid. part*	*Ext. Conj*	*Ext. Disj.*
Leg ⊙R	*Comp* ⊙ P *Leg* P R	*Comp* ⊙ P *Comp* P	*Comp* ⊙ P	∠ ⊙ P ∠ P Z	*Comp* P Z ∠ Z
Comp ⊙	*Comp* ⊙ P *Leg* ⊙ R	*Comp* P *Leg* R P	∠ P	*Comp* ⊙ P *Comp* P Z	∠ Z ∠ ⊙
Comp ⊙ P	*Comp* ⊙ *Comp* P	*Leg* ⊙ R *Leg* R P	*Comp* P Z	∠ P ∠ Z	∠ ⊙ *Comp* ⊙ P
Comp P	*Comp* ⊙ P *Leg* R P	*Comp* ⊙ *Leg* ⊙ R	∠ Z	*Comp* P Z ∠ ⊙	*Comp* ⊙ P ∠ P
Leg R P	*Comp* P *Leg* ⊙ R	*Comp* ⊙ *Comp* ⊙ P	∠ ⊙	∠ Z *Comp* ⊙ P	∠ P *Comp* P Z

Symbols used in Trigonometry

Radius	R
Equall	=
Lefs	−
More	+
a Side	cx
Sides	cxs
an Angle	∠
Angles	∠∠
Sum	Σ
Dif	X
Sine	S
Sine Comp:	Sc
Comp Arch.	co: ar
Tangent	t
Tang: Comp	tc
Secant	Sec
Degree	o
Minut	′
a Root	√
As	∴
Soe is	∷



The 5 Circuler parts of △gles


Iungit Consimiles eadem Proportio partes.
The same Propotion doth like parts conjoyn.
C
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Geometrical
As T to S at: so T to D at to T to D by
PARS
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A Table of Artificial Sines to every quarter point.

	Sine	Cosine	Tangent	
¼	869143	999947	869196	¾
½	890066	999790	899275	½
¾	916630	999527	917102	¼
1	929023	999157	929866	7
¼	938569	998677	939945	¾
½	946261	998090	948171	½
¾	952739	997385	955354	¼
2	958283	965615	661722	6
¼	963105	995614	967491	¾
½	967326	994546	972780	½
¾	971099	993336	977762	¼
3	974473	991984	982489	5
¼	977506	990480	987026	¾
½	980228	988823	991404	½
¾	982704	986981	995723	¼
4	984948	984948	1000000	4
	Cosine	Sine	Cotang.t	

Tangents and Secants, of the Mariners Compas.

	Cotangt	Secant	Cosecant	
1/4	1130803	1000052	1130856	3/4
1/2	1100724	1000209	1100933	1/2
3/4	1082897	1000472	1083369	1/4
1	1070133	1000842	1070976	7
1/4	1060108	1001322	1061430	3/4
1/2	1051828	1001909	1053738	1/2
3/4	1044645	1002614	1047260	1/4
2	1038277	1003438	1041716	6
1/4	1032508	1004385	1036894	3/4
1/2	1027219	1005453	1032673	1/2
3/4	1022238	1006663	1028900	1/4
3	1017510	1008015	1025526	5
1/4	1012973	1009519	1022493	3/4
1/2	1008595	1011176	1019771	1/2
3/4	1007276	1013029	1017281	1/4
4	1000000	1015051	1015051	4
	Tangent	Cosecant	Secant	

A Table of Diference of Latt: & Dep

	D	Dep:	Lat:			D	Dep:	Lat:	
$\frac{1}{4}$	1 0	0 249	0 998		$1\frac{1}{4}$	1 0	242	0 970	
	2 0	0 498	1 997			2 0	485	1 940	
	3 0	1 247	2 996			3 0	728	2 910	
	4 0	1 996	3 995			4 0	971	3 880	
	5 0	2 745	4 994			5 1	214	4 850	
	6 0	2 494	5 992			6 1	457	5 820	
	7 0	3 243	6 991			7 1	700	6 790	
	8 0	3 992	7 990			8 1	943	7 760	
	9 0	4 741	8 989			9 2	186	8 730	
	10 0	4 990	9 987	$7\frac{3}{4}$		10 2	429	9 700	$6\frac{3}{4}$
$\frac{1}{2}$	1 0	0 498	0 995		$1\frac{1}{2}$	1 0	290	0 956	
	2 0	0 996	1 990			2 0	580	1 913	
	3 0	1 494	2 985			3 0	870	2 870	
	4 0	1 992	3 980			4 1	161	3 827	
	5 0	2 490	4 975			5 1	450	4 784	
	6 0	2 988	5 971			6 1	741	5 781	
	7 0	3 486	6 966			7 2	031	6 698	
	8 0	3 984	7 961			8 2	322	7 655	
	9 0	4 482	8 956			9 2	612	8 612	
	10 0	4 980	9 951	$7\frac{1}{2}$		10 2	902	9 569	$6\frac{1}{2}$
$3\frac{1}{4}$	1 0	1 476	0 989		$1\frac{3}{4}$	1 0	336	0 941	
	2 0	2 931	1 978			2 0	673	1 883	
	3 0	4 407	2 967			3 1	010	2 824	
	4 0	5 886	3 956			4 1	347	3 766	
	5 0	7 333	4 945			5 1	684	4 707	
	6 0	8 800	5 935			6 2	021	5 649	
	7 1	0 276	6 924			7 2	358	6 590	
	8 1	1 753	7 913			8 2	695	7 532	
	9 1	3 209	8 902			9 3	032	8 473	
	10 1	4 607	9 891	$7\frac{1}{4}$		10 3	368	9 415	$6\frac{1}{4}$
1 P	1 0	1 995	0 980		2P	1 0	382	0 923	
	2 0	3 990	1 961			2 0	765	1 847	
	3 0	5 985	2 942			3 1	148	2 771	
	4 0	7 980	3 923			4 1	530	3 695	
	5 0	9 975	4 903			5 1	913	4 619	
	6 1	1 970	5 884			6 2	296	5 543	
	7 1	3 965	6 865			7 2	678	6 467	
	8 1	5 960	7 846			8 3	061	7 391	
	9 1	7 955	8 827			9 3	444	8 314	
	10 1	9 950	9 807	7P		10 3	826	9 238	6P
	D	Lat:	Dep:			D	Lat:	Dep:	

to every $\frac{1}{4}$ point of $\frac{1}{8}$ Mariners Compas

	D	Dep:	Lat:			D	Dep:	Lat:	
$2\frac{1}{4}$	1	0 4 27	0 9 03		$3\frac{1}{4}$	1	0 5 95	0 8 03	
	2	0 8 55	1 8 07			2	1 1 91	1 6 06	
	3	1 2 82	2 7 11			3	1 7 87	2 4 09	
	4	1 7 10	3 6 15			4	2 3 82	3 2 12	
	5	2 1 37	4 5 19			5	2 9 78	4 0 16	
	6	2 5 62	5 4 23			6	3 5 74	4 8 19	
	7	2 9 92	6 3 27			7	4 1 69	5 6 22	
	8	3 4 20	7 2 31			8	4 7 65	6 4 25	
	9	3 8 47	8 1 35	$5\frac{3}{4}$		9	5 3 61	7 2 28	$4\frac{3}{4}$
	10	4 2 75	9 0 39			10	5 9 56	8 0 32	
2	1	0 4 72	0 8 82		$3\frac{1}{2}$	1	0 6 34	0 7 73	
$\frac{1}{2}$	2	0 9 42	1 7 63			2	1 2 68	1 5 46	
	3	1 4 14	2 6 45			3	1 9 03	2 3 19	
	4	1 8 85	3 5 27			4	2 5 37	3 0 92	
	5	2 3 56	4 4 09			5	3 1 71	3 8 65	
	6	2 8 28	5 2 91			6	3 8 06	4 6 38	
	7	3 2 99	6 1 73			7	4 4 41	5 4 11	
	8	3 7 71	7 0 55			8	5 0 75	6 1 84	
	9	4 2 42	7 9 37	$5\frac{1}{2}$		9	5 7 09	6 9 57	$4\frac{1}{2}$
	10	4 7 13	8 8 19			10	6 3 43	7 7 30	
$2\frac{3}{4}$	1	0 5 14	0 8 57		$3\frac{3}{4}$	1	0 6 71	0 7 40	
	2	1 0 28	1 7 15			2	1 3 43	1 4 81	
	3	1 5 42	2 5 73			3	2 0 14	2 2 22	
	4	2 0 56	3 4 30			4	2 6 86	2 9 63	
	5	2 5 70	4 2 88			5	3 3 57	3 7 04	
	6	3 0 84	5 1 46			6	4 0 29	4 4 45	
	7	3 5 98	6 0 04			7	4 7 00	5 1 85	
	8	4 1 12	6 8 61			8	5 3 72	5 9 23	
	9	4 6 26	7 7 19	$5\frac{1}{4}$		9	6 0 44	6 6 67	$4\frac{1}{4}$
	10	5 1 41	8 5 77			10	6 7 15	7 4 08	
3^P	1	0 5 55	0 8 71		4^P	1	0 7 07	0 7 07	4^P
	2	1 1 11	1 7 42			2	1 4 14	1 4 14	
	3	1 6 66	2 6 13			3	2 1 21	2 1 21	
	4	2 2 22	3 4 84			4	2 8 28	2 8 28	
	5	2 7 77	4 3 55			5	3 5 35	3 5 35	
	6	3 3 33	5 2 26			6	4 2 42	4 2 42	
	7	3 8 88	6 0 97			7	4 9 49	4 9 49	
	8	4 4 44	6 9 68			8	5 6 56	5 6 56	
	9	5 0 00	7 8 39			9	6 3 63	6 3 63	
	10	5 5 55	8 7 10	5^P		10	7 0 71	7 0 71	
	D	Lat:	Dep:			D	Lat:	Dep:	

A Table of the Angles wch every Rhumb or point of yᵉ Compas mak's wthyᵉ Meridian.

NORTH	SOUTH	☞		D. M.	NORTH	SOUTH
			XII	02 40		
				05 37		
				08 26		
N. by East.	S. by East.	1	10	11 15	N. by West.	S. by West.
			I	14 04		
			XI	16 52		
				19 41		
N.N.E.	S.S.E.	2	20	22 30	N.N.W.	S.S.W.
				25 19		
				28 07		
			II	30 56		
N.E. by N.	S.E. by S.	3	X	33 45	N.W. by N.	S.W. by S.
				36 34		
				39 22		
				42 11		
North E.	South E.	4	40	45 00	Nor. West.	Sou. West.
			III			
			IX	47 49		
				50 37		
				53 26		
N.E. by E.	S.E. by E.	5	50	56 15	N.W. by W.	S.W. by W.
				59 04		
			III	61 52		
			VIII	64 41		
E.N.E.	E.S.E.	6	60	67 30	W.N.W.	W.S.W.
				70 19		
				73 07		
			V	75 56		
E. by Nor.	E. by Sou.	7	VII	78 45	W. by Nor.	W. by Sou.
			80	81 34		
				84 22		
				87 11		
East.	East.	8	90 VI	90 00	West.	West.

A Table of Logarithmes.

Nū	Logarithm	Nū	Logarithm	Nū	Logarithm
1	0.0000000	34	1.5314789	67	1.8260748
2	0.3010300	35	1.5440680	68	1.8325089
3	0.4771212	36	1.5563025	69	1.8388491
4	0.6020600	37	1.5682017	70	1.8450980
5	0.6989700	38	1.5797836	71	1.8512583
6	0.7781512	39	1.5910646	72	1.8573325
7	0.8450980	40	1.6020600	73	1.8633229
8	0.9030900	41	1.6127839	74	1.8692317
9	0.9542425	42	1.6232493	75	1.8750613
10	1.0000000	43	1.6334685	76	1.8808136
11	1.0413927	44	1.6434527	77	1.8864907
12	1.0791812	45	1.6532125	78	1.8920946
13	1.1139433	46	1.6627578	79	1.8976271
14	1.1461280	47	1.6720979	80	1.9030900
15	1.1760913	48	1.6812412	81	1.9084850
16	1.2041200	49	1.6901961	82	1.9138138
17	1.2304489	50	1.6989700	83	1.9190781
18	1.2552725	51	1.7075702	84	1.9242793
19	1.2787536	52	1.7160033	85	1.9294189
20	1.3010300	53	1.7242759	86	1.9344984
21	1.3222193	54	1.7323938	87	1.9395192
22	1.3424227	55	1.7403627	88	1.9444827
23	1.3617278	56	1.7481880	89	1.9493900
24	1.3802112	57	1.7558748	90	1.9542425
25	1.3979400	58	1.7634280	91	1.9590414
26	1.4149733	59	1.7708520	92	1.9637878
27	1.4313638	60	1.7781512	93	1.9684829
28	1.4471580	61	1.7853298	94	1.9731278
29	1.4623980	62	1.7923917	95	1.9777236
30	1.4771212	63	1.7993405	96	1.9822712
31	1.4913617	64	1.8061800	97	1.9867717
32	1.5051500	65	1.8129133	98	1.9912261
33	1.5185139	66	1.8195439	99	1.9956352
34	1.5314789	67	1.8260748	100	2.0000000

A Tide Table (by knowing the Moons age) to finde the time of high water at those Places following.

Moons Age		Dunbrough Portsmouth S. Simpson	Rochester Tadkin Aberdeen	Gravesend Downes Silk S. side	Dundee Lyham S. Lewis	London Tramouth Whitby	Harwich Flamborough Bridlington	Scarborough Cork haven Dungarvon	Newcastle Number Dartmouth	
		H M	H M	H M	H M	H M	H M	H M	H M	H M
1	16	12.38	01.33	02.18	03.05	03.28	04.33	05.18	06.07	
2	17	01.36	02.21	03.00	03.51	04.30	05.21	06.00	06.51	
3	18	02.24	03.09	03.51	04.39	05.23	06.09	06.53	07.39	
4	19	03.12	03.57	04.32	05.27	06.12	06.57	07.42	08.27	
5	20	04.00	04.45	05.30	06.15	07.00	07.45	08.30	09.15	
6	21	04.48	05.33	06.18	07.03	07.48	08.33	09.18	10.03	
7	22	05.36	06.21	07.06	07.51	08.36	09.21	10.06	10.51	
8	23	06.24	07.09	07.54	08.39	09.24	10.00	10.54	11.39	
9	24	07.12	07.57	08.42	09.27	10.12	10.57	11.42	12.27	
10	25	08.00	08.45	09.30	10.15	11.00	11.45	12.30	01.15	
11	26	08.48	09.33	10.18	11.03	11.48	12.33	01.18	02.03	
12	27	09.36	10.21	11.06	11.51	12.36	01.21	02.06	02.51	
13	28	10.24	11.09	11.54	12.39	01.24	02.09	02.54	03.39	
14	29	11.12	11.57	12.42	01.27	02.12	02.57	03.42	04.27	
15	30	12.00	12.45	01.30	02.15	03.00	03.45	04.30	05.15	

A plain and easie Table Shewing the true interest due upon any sum of money from five shillings to an Hundred pounds for a Year or under after the Rate of six Pounds in the Hundred—

		1 Mon			3 Mon			6 Mon			9 Mon			A year		
		ſh	p	q	ſh	p	q	ſh	p	q	ſh	p	q	ſh	p	q
Shill.	5	0	0	1	0	0	3	0	1	3	0	2	2	0	3	2
	10	0	0	2	0	1	3	0	3	2	0	5	2	0	7	0
	15	0	0	3	0	2	2	0	5	1	0	8	0	0	10	2
Pounds	1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
	2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
	3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
	4	0	4	3	1	2	1	2	4	2	3	6	3	4	9	0
	5	0	6	0	1	6	0	3	0	0	4	0	6	6	0	0
	6	0	7	0	1	9	2	3	7	0	5	4	2	7	3	1
	7	0	8	1	2	1	0	4	1	1	6	3	1	8	4	2
	8	0	9	2	2	4	2	4	9	1	7	1	3	9	6	3
	9	0	10	3	2	8	1	5	4	2	8	0	3	10	9	0
		pe.	ſh.	p	pe.	ſh.	p	pe.	ſh.	p	pe.	ſh.	p	pe.	ſh.	p
Tens of Pounds	10	0	1	0	0	3	0	0	6	0	0	9	0	0	12	0
	20	0	2	0	0	6	0	0	12	0	0	18	0	1	4	0
	30	0	3	0	0	9	0	0	18	0	1	7	0	1	16	0
	40	0	4	0	0	12	0	1	4	0	1	16	0	2	8	0
	50	0	5	0	0	15	0	1	10	0	2	5	0	3	0	0
	60	0	6	0	0	18	0	1	16	0	2	14	0	3	12	0
	70	0	7	0	1	1	0	2	2	0	3	3	0	4	4	0
	80	0	8	0	1	4	0	2	8	0	3	12	0	4	16	0
	90	0	9	0	1	7	0	3	14	0	4	1	0	5	8	0
	100	0	10	0	1	10	0	3	0	0	4	10	0	6	0	0

Rules for working of observations of the titude Illustrated in proper Schemes where: plainly demonstrated by John Seller.

1. Rule

Fig. 1.

1. Example

co: alt.	37 . 30
⊙. dec. sub.	12 . 00
N. lat.	25 . 30

2. Rule

Fig. 2.

2. Example

⊙. dec.	20 . 30
co. alt. sub:	10 . 00
S. lat.	10 . 30

2. Rule

Fig. 3.

Example

co. alt:	38 . 30
⊙. dec: add	15 . 00
N lat.	45 . 30

3. Rule

Fig. 4.

1. Example

⊙. dec. N.	20 . 00
co alt. sub.	12 . 30
N. lat	7 . 30

4. Rule

Fig. 5.

2 Example

co. alt. ⊙.	40 . 15
⊙. dec. N. sub.	20 . 00
S. lat.	20 . 15

4. Rule

Fig. 6.

Example

⊙. dec. S.	26 . 45
co. alt. add.	29 . 45
S. lat.	46 . 30

Suns Meridian Altitude for finding the Lat. by the Reasons of the said Rules are

5. Rule 6

Fig. 7.

1. Example

Co. Alt.	20°	00
N. Lat.	20	00

Fig. 8.

2. Example

Co. Alt.	20°	00
S. Lat.	20	00

Fig. 9.

1. Example

N. Lat	15°	00

Rule 7. Rule

Fig. 10.

2. Example

S. Lat.	15°	00

Fig. 11.

1. Example

Co. Alt.	80°	00
☉. dec.	23	30
Lat. N.	103	30
	76	30

Fig. 12.

2. Example

Co. Alt.	80°	00
☉. dec.	23	30
Lat. S.		30
	76	30

An Almanck Shewing the Day of the Month, Suns Place, Right Ascension and Declination for ever: By John Seller.

A Perpetual Almanack

For findeing the day of the Month for ever, For time Past, Present, And to come . *By John Seller.*

Iannar	*Februar*	*March*	*April*	*May*	*Iune*
At	Dover	Dwells	George	Browne	Esquire
Good	Christoph	Finch	And	David	Fryer
Iuly.	*August.*	*Septem.*	*October*	*Novem:*	*Decemb:*

To find the Dom: Letter for ever

C 1	E 1	G 1	B 1	D 1	F 1	A 1
B 2	D 2	F 2	A 2	C 2	E 2	G 2
A 3	C 3	E 3	G 3	B 3	D 3	F 3
GF	BA	DC	FE	AG	CB	ED
1000	1200	1400	1600	1100	1300	1500
1616	20	24	28	32	36	40
44	48	52	56	60	64	68
72	76	80	84	88	92	96
1700	4	8	12	16	20	24
28	32	36	40	44	48	52
2400	1900	2100	2300	1800	2000	2200

High water at the bridge	*Moon age*	*The Moons southing .*	*Moons age for her Sou*
3 — 48	1 — 16	0 — 48	1 — 29
4 — 36	2 — 17	1 — 36	2 — 28
5 — 24	3 — 18	2 — 24	3 — 27
6 — 12	4 — 19	3 — 12	4 — 26
7 — 0	5 — 20	4 — 00	5 — 25
7 — 48	6 — 21	4 — 48	6 — 24
8 — 36	7 — 22	5 — 36	7 — 23
9 — 24	8 — 23	6 — 24	8 — 22
10 — 12	9 — 24	7 — 12	9 — 21
11 — 0	10 — 25	8 — 00	10 — 20
11 — 48	11 — 26	8 — 48	11 — 19
12 — 36	12 — 27	9 — 36	12 — 18
1 — 24	13 — 28	10 — 24	13 — 17
2 — 12	14 — 29	11 — 12	14 — 16
3 — 0	15 — 30	12 — 00	15

To find the day of the Month				
1	8	15	22	29
2	9	16	23	30
3	10	17	24	31
4	11	18	25	
5	12	19	26	
6	13	20	27	
7	14	21	28	

The manner of obserueing by the Quadrant

The manner of obseruing by the Crosstaff

Bryce Downie Owner

77